

VACUUM SEPARATION, TRANSPORT AND COLLECTION SYSTEM FOR  
IMMISCIBLE LIQUIDS

Abstract of the Disclosure

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A vacuum separation, transport and collection system for immiscible liquids includes a separator (12) for separating two immiscible liquids such as oil and a water-based coolant, and for directing the separated  
10 immiscible liquid into a holder (16). A collector (18) is secured through a vacuum line (20) with the holder (16) and a vacuum generator (22) applies a vacuum to the collector (18) and holder (16). A controller (28) controls the vacuum generator (22) to apply a vacuum to  
15 the collector (18) and the holder (16) for a predetermined vacuum duty cycle for periodically removing separated immiscible liquid (26) from the holder (16) into the collector (18). Contaminants in the immiscible liquid cannot degrade performance of the system because  
20 such contaminants do not contact the vacuum generator (22) or controller (28).